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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Talwar et al.

Assignee: Ultratech, Inc.

Serial No.: 10/806,014

U.S. Pat. No. 7,157,660

Filed: March 22, 2004

Issued: January 02, 2007

Art Unit No.: 1725

Examiner: Jonathan J. Johnson

Title: Laser scanning apparatus and
methods for thermal processing

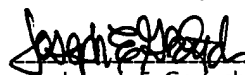
Attorney Docket No.: 3521.171D

ATTN: Certificate of Corrections Branch
Commissioner for Patents
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Alexandria, VA 22313-1450

CERTIFICATE OF MAILING (37 CFR §1.8a)

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Joseph E. Gortych

Date: June 11, 2010

Certificate

JUN 17 2010

of Correction

Transmittal for Certificate of Correction under 37 CFR §1.322

Sir/Madame:

The above-identified patent (hereinafter, the '660 patent) includes a
mistake that was generated by the Patent and Trademark Office, and the above-
identified Assignee seeks to have this mistake corrected under 35 USC §254 and
37 CFR §1.322 via the Certificate of Correction included herewith.

Nature of the mistake

The mistake is in the last line of claim 1, which is col. 19, line 5 of the '660 patent. The latest revision to the claims prior to issuance of the '660 patent was made in applicant's "RCE Preliminary Amendment and Response to Examiner's Final Rejection." The amended claim 28 from this Amendment is reproduced below.

28. (currently amended) A method of thermally processing one or more regions of a substrate, comprising the steps of:
- a. generating a continuous beam of radiation having a wavelength capable of heating the one or more regions to form an image having an operationally useful portion with ~~a substantially uniform an~~ intensity uniformity of about $\pm 2\%$; and
 - b. scanning the beam of radiation over the one or more regions in a scan direction so that each point in the one or more regions receives an amount of thermal energy effective to process each of the one or more regions at a ~~substantially uniform~~ temperature having a temperature uniformity produced as a result of the $\pm 2\%$ intensity uniformity.

It can be seen that amended claim 28 (which was renumbered as claim 1 in the '660 patent) includes in the last line the limitation of $\pm 2\%$ and not $\pm 20\%$, as was subsequently published in error in the '660 patent, as is seen in claim 1 of the '660 patent as reproduced below:

US 7,157,0

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described herein. Accordingly, other embodiments are within the scope of the appended claims.

What is claimed is:

1. A method of thermally processing one or more regions of a substrate, comprising the steps of: 5 i:
 - a. generating a continuous beam of radiation having a wavelength capable of heating the one or more regions to form an image having an operationally useful portion with an intensity uniformity of about $\pm 2\%$; and
 - b. scanning the beam of radiation over the one or more 10 regions in a scan direction so that each point in the one or more regions receives an amount of thermal energy effective to process each of the one or more regions at a temperature having a temperature uniformity produced as a result of the $\pm 20\%$ intensity uniformity. 15

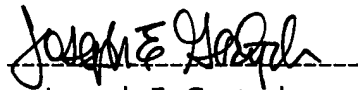
This is an error of consequence because it relates to the breadth and definiteness of the claim. It is therefore respectfully requested that the attached Certificate of Correction be issued so that the claim reads in a self-consistent and definite manner as intended by the Assignee during the prosecution of the '660 patent.

Power of Attorney

A Power of Attorney document (form PTO/SB/81A) and a form 37 CFR 3.73(b) are included herewith that provide the undersigned attorney with the authority to submit the attached Certificate of Correction on behalf of the above-identified Assignee. Correspondence relating to this matter should be directed to the undersigned attorney (Customer No. 53590).

Respectfully submitted on behalf of Ultratech, Inc. by:

OPTICUS IP LAW PLLC



Joseph E. Gortych

Reg. No. 41,791

Date: June 11, 2010

Correspondence Address (Customer #53590)

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**PATENT - POWER OF ATTORNEY
OR
REVOCATION OF POWER OF ATTORNEY
WITH A NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

| | |
|------------------------|---|
| Patent Number | 7,157,660 |
| Issue Date | January 02, 2007 |
| First Named Inventor | Somit TALWAR |
| Title | Laser scanning apparatus and methods for thermal processing |
| Attorney Docket Number | n/a |

I hereby revoke all previous powers of attorney given in the above-identified patent.

☐ A Power of Attorney is submitted herewith.

OR

☐ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) with respect to the patent identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

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| Practitioner(s) Name | Registration Number |
|----------------------|---------------------|
| Joseph E. Gortych | 41,791 |
| Aliston L. Jones | 27,906 |
| | |
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☐ Inventor, having ownership of the patent.

OR

☒ Patent owner.

Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on _____

SIGNATURE of Inventor or Patent Owner

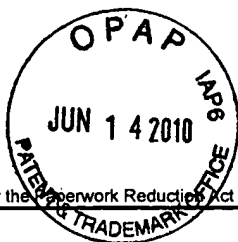
| | | | |
|-------------------|----------------------------------|-----------|----------------------|
| Signature | <i>Andrew M. Hawryluk</i> | Date | 6/7/10 JUNE 07, 2010 |
| Name | Andrew M. HAWRYLUK | Telephone | 800-222-1213 |
| Title and Company | SENIOR VP & CTO, ULTRATECH, INC. | | |

NOTE: Signatures of all the inventors or patent owners of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/96 (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Somit TALWAR; Michael O. THOMPSON; David A. MARKLE

Application No./Patent No.: 7,157,660 Filed/Issue Date: JANUARY 02, 2007

Entitled: LASER SCANNING APPARATUS AND METHODS FOR THERMAL PROCESSING

ULTRATECH, INC., a CORPORATION
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest
(The extent (by percentage) of its ownership interest is _____ %)

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 018583, Frame 0242, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

JOSEPH E. GORTYCH
Signature

JUNE 08, 2010
Date

JOSEPH E. GORTYCH
Printed or Typed Name

941-378-2744
Telephone Number

ASSIGNEE'S AUTHORIZED REPRESENTATIVE
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,157,660

APPLICATION NO.: 10/806,014

ISSUE DATE : JANUARY 02, 2007

INVENTOR(S) : TALWAR; THOMPSON; MARKLE

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

>> In claim 1, in the last line (i.e., col. 19, line 15), replace "20%" with "2%" .

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Opticus IP Law, PLLC 7791 Alister Mackenzie Drive, Sarasota, FL 34240

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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